

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicants: Yasushi TOHI et al.
Serial No: 10/550,021 Group: 1713
Filed: September 23, 2005 Examiner: Caixia Lu
For: PROCESS FOR PRODUCING OLEFIN POLYMERS

DECLARATION UNDER 37 CFR 1.132

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

I, Yasushi Tohi, declare and state that:

1. In March 1991, I was graduated from Ehime University, Faculty of Engineering, Department of Industrial Chemistry and received a degree of Bachelor of Engineering from the same University. In March 1993, I was graduated from the master course of the same University, Institute of Engineering, majoring in Industrial Chemistry, and received a degree of Master of Engineering from the same University. In September 2004, I received a degree of Doctor of Science from the same University. Since 1994, I have been an employee of Mitsui Petrochemical Industries, Ltd. (now Mitsui Chemicals, Inc.) and till the present time I have been engaged in Research of

olefin polymerization catalyst.

2. I am a co-inventor of the invention described in the specification of the above-identified application.

3. I have carried out the following Experiments in order to demonstrate the superior and unexpected results of the present invention.

Experiment A

Preparation of a catalyst solution and polymerization were performed in the manner similar to Example 1 of the present specification, except for replacing di(p-tolyl)methylene (cyclopentadienyl) (octamethyloctahydrodibenzofluorenyl) zirconium dichloride with diphenylmethylene (cyclopentadienyl) (2,7-di-t-butylfluorenyl) zirconium dichloride prepared according to the method described in JP-A-6(1994)-172443.

As a result, an ethylene-1-octene copolymer was obtained with a yield of 23.6 g. The obtained polymer had a density of 899 (kg/m³), MFR₂ = 1.66 (g/10 min), MFR₁₀ = 13.11 (g/10 min), MFR₁₀/MFR₂ = 7.9, and Mw/Mn = 2.07. The polymerization activity was 47.2 Kg/mmol-Zr · hr.

5. The undersigned declares further that all statements made herein of my own knowledge are true and that all statements

made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

this 2 day of February, 2007

Respectfully submitted,

Yasushi Tohi
Yasushi TOHI